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OM protein - protein search, using sw model

Run On: August 13, 2001, 11:23:05 ; Search time 110.38 Seconds  
(without alignments)  
1.648 Million cell updates/sec

Title:	PCT-US00-40496-12
Perfect score:	3
Sequence:	1 KRR 3

Scoring table:	OLIGO	50 0	50 0
	50 0	50 0	50 0

Searched: 412676 seqs, 60623988 residues

**word size :**

Total number of hits satisfying chosen parameters: 158286

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Minimum DB seq length: 0
Maximum DB seq length: 20

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Post-processing: Listing first 45 summaries

Database : A\_Geneseq\_0601:\*

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22:	/cgnl_9/gcgdata/geneseq/geneseqp/AA2001.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	3	100.0	4	18	AAW26711	Fusion protein hyd
2	3	100.0	4	19	AAW52421	Beta-turn region u
3	3	100.0	4	20	AAV06089	Archivillin nuclear
4	3	100.0	4	20	AAV09618	Antimicrobial cycl
5	3	100.0	4	20	AAV15854	Melanocortin recep
6	3	100.0	4	20	AAW95379	IL-1 alpha prolepec
7	3	100.0	4	21	AAAB12666	Synthetic oligopep
8	3	100.0	4	22	AAAB80640	Human glandular ka
9	3	100.0	4	22	AAAB80642	Human glandular ka
10	3	100.0	4	22	AAAB80643	Human glandular ka
11	3	100.0	4	22	AAAB80644	Human glandular ka

12	3	100.0	4	22	AAB80650	Human glandular ka
13	3	100.0	5	15	AAR62390	Phospholipase A2 in
14	3	100.0	5	17	AAR86617	HIV TAT cellular u
15	3	100.0	5	17	AAR86618	HIV TAT cellular u
16	3	100.0	5	17	AAR95443	RA susceptibility
17	3	100.0	5	18	AAW26219	Fusion protein hyd
18	3	100.0	5	18	AAW26220	Fusion protein hyd
19	3	100.0	5	18	AAW26224	Fusion protein hyd
20	3	100.0	5	18	AAW26226	Fusion protein hyd
21	3	100.0	5	18	AAW19167	Isoelectric point
22	3	100.0	5	19	AAV20823	Human neurofilamen
23	3	100.0	5	20	AAV06091	Archivillin nuclear
24	3	100.0	5	20	AAW98055	Streptococcus pyog
25	3	100.0	5	20	AAW98057	Streptococcus agal
26	3	100.0	5	21	AAB11066	S. pyogenes sortas
27	3	100.0	5	21	AAB11068	S. agalactiae sorta
28	3	100.0	5	21	AAB14216	HIV SP162 gp120 cl
29	3	100.0	5	21	AAB14222	HIV US4 gp120 clea
30	3	100.0	5	21	AAV69732	ADP-1/TAR binding
31	3	100.0	5	21	AAV49920	Glycocalyx mimc s
32	3	100.0	5	22	AAB80741	hk2 cleavage site
33	3	100.0	5	22	AAB80743	hk2 cleavage site
34	3	100.0	5	22	AAB80744	hk2 cleavage site
35	3	100.0	5	22	AAB80745	hk2 cleavage site
36	3	100.0	5	22	AAB80746	hk2 cleavage site
37	3	100.0	5	22	AAB80747	hk2 cleavage site
38	3	100.0	5	22	AAB80748	hk2 cleavage site
39	3	100.0	6	4	AAV30312	Sequence encoded b
40	3	100.0	6	11	AAV03074	Immunostimulant p
41	3	100.0	6	17	AAW12964	HCV NS3 protease s
42	3	100.0	6	18	AAW01642	Solubilising motif
43	3	100.0	6	18	AAW19174	Isoelectric point
44	3	100.0	6	19	AAV20320	Human microtubule
45	3	100.0	6	19	AAW79204	Het-A nucleus-tran

## ALIGNMENTS

PS	Claim 6; Page 127; 19app; English.
XX	
XX	
PT	Recombinant protein expression system for fusion protein production
PT	- useful for high quantity production of authentic recombinant
XX	proteins
XX	
DR	
XX	
XX	
PI	Sgarlato GD;
XX	
PA	(TECH-) TECHNOLOGENE INC.
XX	
XX	
PR	31-JAN-1996; 96US-0595043.
XX	
PF	31-JAN-1997; 97WO-US01470.
XX	
PD	07-AUG-1997.
XX	
PN	WO9728272-A1.
XX	
OS	Synthetic.
XX	
KW	Fusion protein; hydrophillic spacer; recombinant; expression system;
XX	carboxypeptidase.
DE	
XX	
XX	
DT	16-MAR-1998 (first entry)
XX	
XX	
AC	AAW26211;
XX	
ID	AAW26211 standard; peptide; 4 AA.
RESULT	1

XX A novel recombinant vector has been developed which comprises a  
CC nucleotide sequence encoding a fusion protein. The fusion protein  
CC comprises three domains joined together in order, from N-terminus to  
CC C-terminus, of a first domain comprising a protein of interest, a second  
CC domain comprising a hydrophilic spacer and an affinity domain, each  
CC domain comprising amino acid residues. The present sequence represents  
CC a specifically claimed hydrophilic spacer. The recombinant vector is  
CC used for the production of authentic recombinant proteins of interest.  
CC The method of the invention is useful for the expression of fusion  
CC proteins capable of isolation by affinity chromatography in pro- or  
CC eukaryotic cells. This method allows for the efficient cleavage and  
CC generation of authentic proteins of interest that do not contain  
CC extraneous (i.e. non-naturally occurring) amino acids.

Sequence 4 AA;  
Query Match 100.0%; Score 3; DB 18; Length 4;  
Best Local Similarity 100.0%; Pred. No. 3.4e+05;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KRR 3  
DB 1 KRR 3

RESULT 2  
AAW52421  
ID AAW52421 standard; peptide; 4 AA.

AC AAW52421;  
DT 01-JUL-1998 (first entry)

DE Beta-turn region used in cyclic peptide of the invention.

KW Beta-turn region; cyclic peptide; antimicrobial; disinfectant; therapy;  
KM preservative; amphipathic anti-parallel beta-sheet region; plant disease.

OS Synthetic.

PN WO9803192-A1.

PD 29-JAN-1998.

PF 23-JUL-1997; 97WO-US12974.

PR 24-JUL-1996; 96US-0685589.

PA (INTR-) INTRABIOTICS PHARM INC.

PI Chang C, Chen J, Gu L;

DR WPI; 1998-120472/11.

XX New cyclic peptide(s) with antimicrobial activity - contain  
PT amphipathic beta-sheet, loop and beta-turn regions, have better  
PT activity, bioavailability and protease resistance than linear  
PT analogues

PS Claim 3; Page 149; 160pp; English.

XX This sequence represents a beta-turn region used in a peptide of the  
CC invention. The peptides are cyclic peptides (I), which have: (a) an  
CC amphipathic anti-parallel beta-sheet region (SR), a loop region (LR) and  
CC a beta-turn region (TR); (b) a net positive charge at physiological pH;  
CC and (c) at least one basic amino acid (aa) in LR or TR. (I) are broad  
CC spectrum antimicrobials, specifically for use against E. coli,  
CC pseudomonas aeruginosa, methicillin-resistant Staphylococcus aureus  
CC (MRSA), vancomycin-resistant Enterococcus faecium and  
CC penicillin-resistant Streptococcus pneumoniae. More generally they are  
CC active against Gram-positive or -negative bacteria, fungi, yeast and

CC protozoa. Apart from clinical uses, (I) are also used as disinfectants  
CC and preservatives for medical equipment, foods, cosmetics etc., also for  
CC treatment of plant diseases. Compared with non-cyclised analogues (i.e.  
CC tachyplesin and protegrin type peptides), (I) and are more effective,  
CC with better bioavailability and/or serum half-life (increased resistance  
CC to proteolysis). They are more suitable for oral administration, can be  
CC used at lower doses and are unlikely to induce development of resistant  
CC strains.

Sequence 4 AA;  
Query Match 100.0%; Score 3; DB 19; Length 4;  
Best Local Similarity 100.0%; Pred. No. 3.4e+05;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KRR 3  
DB 1 KRR 3

RESULT 3  
AA06089  
ID AA06089 standard; Peptide; 4 AA.

AC AA06089;  
DT 16-AUG-1999 (first entry)

DE Archvilllin nuclear localisation sequence.

KW Supervilllin; archvilllin; actin binding protein; apoptosis;  
KM cell proliferation; therapy; nuclear localisation sequence; human.

OS Homo sapiens.

PN WO9923213-A1.

PD 14-MAY-1999.

PF 30-OCT-1998; 98WO-US23061.

PR 31-OCT-1997; 97US-0962284.

PA (UYMA-) UNIV MASSACHUSETTS.

PI Luna EJ, Pestonjamas KN, Pope RK, Wulfkuhle JD;

DR WPI; 1999-313338/26.

PT Actin-binding proteins supervilllin and archvilllin

PS Example 9; Page 76; 118pp; English.

XX This sequence represents a predicted nuclear localisation sequence  
CC located at amino acid residues 714-717 of human archvilllin (see  
CC AA06079), the muscle isoform of supervilllin, which is a novel  
CC actin binding protein of the plasma membrane. Supervillins  
CC function to block apoptosis in sub-confluent epithelial cells. The  
CC invention provides supervilllin polypeptides (see AA06077-79) and  
CC polynucleotides (see AA058619-21), antibodies and modulators of  
CC supervilllin expression or activity. These are used for diagnosis  
CC and treatment of disease, and for inducing apoptosis in cells.

Sequence 4 AA;

Query Match 100.0%; Score 3; DB 20; Length 4;  
Best Local Similarity 100.0%; Pred. No. 3.4e+05;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KRR 3  
DB 1 KRR 3

XX The present invention relates to a peptide comprising an amino acid  
CC sequence having a cleavage site specific for an enzyme having a  
CC proteolytic activity of human kallikrein 2 (hk2), and which is up to  
CC 20 amino acids in length. The invention is useful for producing a  
CC prodrug which involves linking a drug which contains a primary amine  
CC to the peptide, in which the linking of the peptide to the drug  
CC inhibits the therapeutic activity of the drug.

SQ Sequence 5 AA;

Query Match 100.0%; Score 5; DB 22; Length 5;  
Best Local Similarity 100.0%; Pred. No. 3.4e+05;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GKRR 5  
DB 1 gkrr 5

RESULT 2

AAB80669 standard; peptide; 7 AA.

AC AAB80669;

DT 02-MAY-2001 (first entry)

DE Human glandular kallikrein 2 cleavage site peptide #30.

KW Cleavage; kallikrein 2; hk2; prodrug.

OS Synthetic.

PN WO200109165-A2.

PD 08-FEB-2001.

PF 28-JUL-2000; 2000WO-US40496.

PR 29-JUL-1999; 99US-0146316.

PA (UYJO ) UNIV JOHNS HOPKINS.

PI Denmeade SR, Isaacs JT, Lilja H, Christensen SB;

DR WPI; 2001-191450/19.

XX New peptides containing cleavage sites specifically cleaved by human  
PT kallikrein 2, useful for producing prodrugs which treat hk2-producing  
PT cell proliferative disorders without exhibiting non-specific toxicity

PS Disclosure; Page 8; 38pp; English.

CC The present invention relates to a peptide comprising an amino acid  
CC sequence having a cleavage site specific for an enzyme having a  
CC proteolytic activity of human kallikrein 2 (hk2), and which is up to  
CC 20 amino acids in length. The invention is useful for producing a  
CC prodrug which involves linking a drug which contains a primary amine  
CC to the peptide, in which the linking of the peptide to the drug  
CC inhibits the therapeutic activity of the drug.

SQ Sequence 7 AA;

Query Match 100.0%; Score 5; DB 22; Length 7;  
Best Local Similarity 100.0%; Pred. No. 3.4e+05;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GKRR 5  
DB 1 gkrr 5

DB 2 gkrr 6

RESULT 3

AAB80706 standard; peptide; 7 AA.

AC AAB80706;

DT 02-MAY-2001 (first entry)

DE Human glandular kallikrein 2 substrate peptide #36.

KW Cleavage; kallikrein 2; hk2; prodrug.

OS Synthetic.

PN WO200109165-A2.

PD 08-FEB-2001.

PF 28-JUL-2000; 2000WO-US40496.

PR 29-JUL-1999; 99US-0146316.

PA (UYJO ) UNIV JOHNS HOPKINS.

PI Denmeade SR, Isaacs JT, Lilja H, Christensen SB;

DR WPI; 2001-191450/19.

XX New peptides containing cleavage sites specifically cleaved by human  
PT kallikrein 2, useful for producing prodrugs which treat hk2-producing  
PT cell proliferative disorders without exhibiting non-specific toxicity

PS Example 8; Page 29; 38pp; English.

CC The present invention relates to a peptide comprising an amino acid  
CC sequence having a cleavage site specific for an enzyme having a  
CC proteolytic activity of human kallikrein 2 (hk2), and which is up to  
CC 20 amino acids in length. The invention is useful for producing a  
CC prodrug which involves linking a drug which contains a primary amine  
CC to the peptide, in which the linking of the peptide to the drug  
CC inhibits the therapeutic activity of the drug.

SQ Sequence 7 AA;

Query Match 100.0%; Score 5; DB 22; Length 7;  
Best Local Similarity 100.0%; Pred. No. 3.4e+05;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GKRR 5  
DB 2 gkrr 6

RESULT 4

AAW59284 standard; Protein; 12 AA.

AC AAW59284;

DT 11-SEP-1998 (first entry)

DE Homo sapiens adrenal corticotrophic hormone urokinase cleavage site.

KW adrenal corticotrophic hormone; proprotein; protease-activatable;

OS cancer; specific; selective; treatment; urokinase; cleavage site.

OY 1 GKRR 5  
DB 1 gkrr 5

PN WO9820135-A2.  
XX  
PD 14-MAY-1998.  
XX  
PF 05-NOV-1997; 97WO-US20207.  
XX  
PR 06-NOV-1996; 96US-0030376.  
XX  
PA (USSH ) US DEPT HEALTH & HUMAN SERVICES.  
XX  
PI Fitzgerald DJ, Pastan I, Reiter Y;  
XX  
DR WPI; 1998-286951/25.  
XX  
PT Pseudomonas exotoxin A-like proprotein which is protease-activatable  
PT - allows activation by desired protease through protease activatable  
PT sequence in domain II loop, useful to selectively kill e.g. cancer  
PT cells  
XX  
PS Disclosure; Page 29; 74pp; English.  
XX  
CC The sequence is that of an adrenal corticotrophic hormone urokinase  
CC cleavage site which was used in construction of a protease-activatable  
CC pseudomonas exotoxin (PE) A-like proprotein. Such proproteins  
CC can be used to kill (especially prostate or colon) cancer  
CC cells. They are modified for activation by a desired protease  
CC by insertion of a protease activatable sequence in the domain  
CC II loop; proprotein activation results in formation of cytotoxic  
CC PE. PE is normally translocated into the cytosol after cleavage of a  
CC furin recognition site in domain II by furin, but in the proproteins the  
CC furin recognition site is replaced by a site recognised by a protease  
CC made/secreted by a cell targeted for death, e.g. a cancer cell. The  
CC proproteins can be used in vivo e.g. to treat mammals suffering from  
CC cancer or ex vivo e.g. to selectively eliminate cultured  
CC mammalian cells prior to reintroduction. Mammalian cells can be  
CC engineered to exhibit altered susceptibility to a specific proprotein  
CC or to produce proprotein e.g. for gene therapy. Activation by a target  
CC protease rather than furin allows toxicity to be more cell-specific  
CC than for PE. The proproteins also provide more specific cancer  
CC treatment than previous immunotoxin-based therapies.  
XX  
SQ Sequence 12 AA:  
  
Query Match 100.0%; Score 5; DB 19; Length 12;  
Best Local Similarity 100.0%; Pred. No. 11;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
OY 1 GKRR 5  
Db 3 gkrr 7  
  
RESULT 5  
AAW59285  
ID AAW59285 standard; Protein; 12 AA.  
XX  
AC AAW59285;  
XX  
XX 11-SEP-1998 (first entry)  
XX  
DE Homo sapiens adrenal corticotrophic hormone urokinase cleavage site.  
XX  
KM adrenal corticotrophic hormone; proprotein; protease-activatable;  
KM cancer; specific; selective; treatment; urokinase; cleavage site.  
XX  
OS Homo sapiens.  
XX  
PN WO9820135-A2.  
XX  
PD 14-MAY-1998.  
XX  
PF 05-NOV-1997; 97WO-US20207.

XX  
PR 06-NOV-1996; 96US-0030376.  
XX  
PA (USSH ) US DEPT HEALTH & HUMAN SERVICES.  
XX  
PI Fitzgerald DJ, Pastan I, Reiter Y;  
XX  
DR WPI; 1998-286951/25.  
XX  
PT Pseudomonas exotoxin A-like proprotein which is protease-activatable  
PT - allows activation by desired protease through protease activatable  
PT sequence in domain II loop, useful to selectively kill e.g. cancer  
PT cells  
XX  
PS Disclosure; Page 29; 74pp; English.  
XX  
CC The sequence is that of an adrenal corticotrophic hormone urokinase  
CC cleavage site which was used in construction of a protease-activatable  
CC pseudomonas exotoxin (PE) A-like proprotein. Such proproteins  
CC can be used to kill (especially prostate or colon) cancer  
CC cells. They are modified for activation by a desired protease  
CC by insertion of a protease activatable sequence in the domain  
CC II loop; proprotein activation results in formation of cytotoxic  
CC PE. PE is normally translocated into the cytosol after cleavage of a  
CC furin recognition site in domain II by furin, but in the proproteins the  
CC furin recognition site is replaced by a site recognised by a protease  
CC made/secreted by a cell targeted for death, e.g. a cancer cell. The  
CC proproteins can be used in vivo e.g. to treat mammals suffering from  
CC cancer or ex vivo e.g. to selectively eliminate cultured  
CC mammalian cells prior to reintroduction. Mammalian cells can be  
CC engineered to exhibit altered susceptibility to a specific proprotein  
CC or to produce proprotein e.g. for gene therapy. Activation by a target  
CC protease rather than furin allows toxicity to be more cell-specific  
CC than for PE. The proproteins also provide more specific cancer  
CC treatment than previous immunotoxin-based therapies.  
XX  
SQ Sequence 12 AA:  
  
Query Match 100.0%; Score 5; DB 19; Length 12;  
Best Local Similarity 100.0%; Pred. No. 11;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
OY 1 GKRR 5  
Db 4 gkrr 8  
  
RESULT 6  
AAW59286  
ID AAW59286 standard; Protein; 12 AA.  
XX  
AC AAW59286;  
XX  
XX 11-SEP-1998 (first entry)  
XX  
DE Homo sapiens adrenal corticotrophic hormone urokinase cleavage site.  
XX  
KM adrenal corticotrophic hormone; proprotein; protease-activatable;  
KM cancer; specific; selective; treatment; urokinase; cleavage site.  
XX  
OS Homo sapiens.  
XX  
PN WO9820135-A2.  
XX  
PD 14-MAY-1998.  
XX  
PF 05-NOV-1997; 97WO-US20207.  
XX  
PR 06-NOV-1996; 96US-0030376.  
XX  
PA (USSH ) US DEPT HEALTH & HUMAN SERVICES.



OS Synthetic.  
XX PN WO200077193-A1.  
XX PD 21-DEC-2000.  
XX PF 09-JUN-2000; 2000WO-NL00399.  
XX PR 10-JUN-1999; 99EP-0201846.  
XX PR 10-JUN-1999; 99US-0138443.  
XX PA (UYGR-) RIJKSUNIV GRONINGEN.  
XX PI Quax WJ, Verhaert RMD, Beekwilder MJ, Aehle W;  
XX DR WPI; 2001-112224/12.  
XX DR N-PSDB; AAF23957.  
XX PT Selecting an enzyme with desired catalytic activity, useful as  
XX PT catalysts in specific reactions, comprises selecting for display  
XX PT vehicle carrying nucleic acid encoding a mutant enzyme with a mutated  
XX PT site other than its catalytic site -  
XX PS Example 4; Page 33; 52pp; English.  
XX CC The present sequence was generated and used in an example to demonstrate  
XX CC a method for selecting an enzyme mutant with desired catalytic activity.  
XX CC The method comprises displaying each of the enzyme mutants on a display  
XX CC vehicle surface containing a nucleic acid encoding the mutant; and  
XX CC selecting for a display vehicle carrying a nucleic acid encoding a mutant  
XX CC enzyme with at least a mutated site other than its catalytic site. The  
XX CC method is useful for selecting or obtaining enzymes with a desired  
XX CC activity. Such enzymes are used as catalysts that accelerate the rate of  
XX CC specific reactions in industry, in food processing, in the manufacture of  
XX CC laundry soap, and in the production of fine (bio)chemicals.  
SQ Sequence 7 AA;  
  
Query Match 100.0%; Score 5; DB 22; Length 7;  
Best Local Similarity 100.0%; Pred. No. 3.4e+05;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
OY 1 GAKRR 5  
Db 2 gakrr 6  
  
RESULT 5  
AAV26298  
ID AAV26298 standard; Peptide; 12 AA.  
XX AC AAV26298;  
XX DT 03-NOV-1999 (first entry)  
XX DE Peptide-6 derived from murine NFAT1.  
XX KW Murine NFAT1 protein; NFAT dephosphorylation; NFAT protein; calcineurin;  
XX KW antibody; immunisation. transcription factor;  
XX KW calcineurin-mediated dephosphorylation.  
XX OS Mus musculus.  
XX PN WO9940930-A1.  
XX PD 19-AUG-1999.  
XX PR 11-FEB-1999; 99WO-US03085.  
XX PR 12-FEB-1998; 98US-0074467.  
XX PA (BLOO-) CENT BLOOD RES INC. 4

XX PI Aramburu J, Hogan PG, Rao A;  
XX DR WPI; 1999-508578/42.  
XX PT Inhibitors of NFAT activation by calcineurin, used to, e.g. treat a  
XX PT disease involving hyperactivity  
XX PS Disclosure; Page 117; 125pp; English.  
XX CC The present sequence is a peptide derived from murine NFAT1 protein  
XX CC (239 to 255). This is used to determine dephosphorylation of NFAT by  
XX CC examining specific sites remaining phosphorylated in the NFAT protein  
XX CC after treatment with calcineurin. The presence or absence of covalently  
XX CC bound phosphate is determined using antibodies, or a functionally  
XX CC equivalent reagent, that discriminate between phosphorylated and  
XX CC unphosphorylated forms of a specific peptide in the context of the  
XX CC larger protein or protein fragment. Antibodies to phosphorylated or  
XX CC dephosphorylated NFAT peptides can be raised, e.g., by immunisation of  
XX CC rabbits.  
SQ Sequence 12 AA;  
  
Query Match 100.0%; Score 5; DB 20; Length 12;  
Best Local Similarity 100.0%; Pred. No. 5.6;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
OY 1 GAKRR 5  
Db 8 gakrr 12  
  
RESULT 6  
AAV26299  
ID AAV26299 standard; Peptide; 17 AA.  
XX AC AAV26299;  
XX DT 03-NOV-1999 (first entry)  
XX DE Peptide comprising residues 239 to 255 of murine NFAT1.  
XX KW Murine NFAT1 protein; NFAT dephosphorylation; NFAT protein; calcineurin;  
XX KW antibody; immunisation. transcription factor;  
XX KW calcineurin-mediated dephosphorylation.  
XX OS Mus musculus.  
XX FH Key Location/Qualifiers  
XX FH Peptide 1..12  
XX FT /note- "Peptide-4"  
XX FT Peptide 4..13  
XX FT /note- "Peptide-5"  
XX FT Peptide 6..17  
XX FT /note- "Peptide-6"  
XX PN WO9940930-A1.  
XX PD 19-AUG-1999.  
XX PR 11-FEB-1999; 99WO-US03085.  
XX PR 12-FEB-1998; 98US-0074467.  
XX PA (BLOO-) CENT BLOOD RES INC.  
XX PI Aramburu J, Hogan PG, Rao A;  
XX DR WPI; 1999-508578/42.  
XX PT Inhibitors of NFAT activation by calcineurin, used to, e.g. treat a  
XX PT disease involving hyperactivity



CC AAW1147-W1150 are CD4 peptides that bind to HIV gp120 and inactivate  
CC the virus. The peptides can be dispersed in a suitable vehicle to  
CC provide compositions useful for protecting human CD4+ cells, e.g., T  
CC cells, from HIV infection, e.g., to inhibit transmission of HIV during  
CC sexual contact. They could also be used in e.g., surgical gloves and  
CC liquid soap in hospitals to prevent HIV transmission. Alternatively, the  
CC peptides in the composition may be attached to solid supports, e.g.,  
CC disposable filters, for inactivating HIV in blood and other body fluid  
CC samples.

Sequence 4 AA:

Query Match 100.0%; Score 3; DB 18; Length 4;  
Best Local Similarity 100.0%; Pred. No. 3.4e+05;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 SRR 3  
DB 1 str 3

# RESULT 2

AAV23396  
ID AAV23396 standard; Peptide; 4 AA.

AC AAV23396;

DT 02-SEP-1999 (first entry)

DE V beta 6 clone found in MS patients after vaccination with TCR.

KW Vaccine; T cell receptor; TCR; T cell; V beta 6.2/3; V beta 6/5;  
V beta 6.7; V beta 2; V beta 5/1; V beta 7; V beta 13; V beta 6;

KW multiple sclerosis.

OS Synthetic.

OS Homo sapiens.

PN WO9927957-A1.

PD 10-JUN-1999.

PF 03-DEC-1997; 97WO-US23147.

PR 03-DEC-1997; 97WO-US23147.

XX (IMMU-) IMMUNE RESPONSE COMP.

PA (KIMM-) KIMMEL CANCER CENT SIDNEY.

PI Brostoff SM, Carlo DJ, Gold DP, Smith LR, Wilson DB;

DR WPI; 1999-404801/34.

PT T0 cell receptor peptide-derived vaccines

PS Example 11; Page 84; 104pp; English.

XX The specification describes vaccines which comprise immunologically

CC effective amounts of T cell receptor (TCR) peptides. The TCRs are

CC present on the surface of T cells. The TCRs are chosen from V beta

CC 6.2/3, V beta 6/5, V beta 6.7, V beta 2, V beta 5/1, V beta 7 or V beta

CC 13. The V beta TCR peptide-based vaccines are useful for prevention or

CC treatment of multiple sclerosis (MS). The presence of V beta 6.7 appears

CC to be particularly associated with multiple sclerosis and can be used

CC to determine an individual's susceptibility to multiple sclerosis.

CC Vaccinating, rather than passively administering heterologous

CC antibodies, allows the host's own immune system to mobilize and suppress

CC auto aggressive T cells. Therefore, the suppression is persistent and

CC may involve any and all immunological mechanisms in effecting that

CC suppression. Such a multi-faceted response is

CC AAV23387-Y23480 represent peptides derived from TCR V beta 6 clones  
CC found in the cerebrospinal fluid (CSF) of MS patients, after vaccination  
CC with V beta 6.

Sequence 4 AA:

Query Match 100.0%; Score 3; DB 20; Length 4;  
Best Local Similarity 100.0%; Pred. No. 3.4e+05;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 SRR 3  
DB 1 str 3

# RESULT 3

AAB80641  
ID AAB80641 standard; peptide; 4 AA.

AC AAB80641;

DT 02-MAY-2001 (first entry)

DE Human glandular kallikrein 2 cleavage site peptide #2.

KW Cleavage; kallikrein 2; hK2; prodrug.

OS Synthetic.

PN WO200109165-A2.

PD 08-FEB-2001.

PF 28-JUL-2000; 2000WO-US40496.

PR 29-JUL-1999; 99US-0146316.

XX (UYJO ) UNIV JOHNS HOPKINS.

PA Denmeade SR, Isaacs JT, Lilja H, Christensen SB;

PI WPI; 2001-191450/19.

DR New peptides containing cleavage sites specifically cleaved by human

PT kallikrein 2, useful for producing prodrugs which treat hK2-producing

PT cell proliferative disorders without exhibiting non-specific toxicity

PS Disclosure; Page 7; 38pp; English.

XX The present invention relates to a peptide comprising an amino acid

CC sequence having a cleavage site specific for an enzyme having a

CC proteolytic activity of human kallikrein 2 (hK2), and which is up to

CC 20 amino acids in length. The invention is useful for producing a

CC prodrug which involves linking a drug which contains a primary amine

CC to the peptide, in which the linking of the peptide to the drug

XX Inhibits the therapeutic activity of the drug.

Sequence 4 AA:

Query Match 100.0%; Score 3; DB 22; Length 4;  
Best Local Similarity 100.0%; Pred. No. 3.4e+05;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 SRR 3  
DB 2 str 4

PN JP3015886-B1.  
XX  
PD 06-MAR-2000.  
XX  
PF 04-NOV-1998; 98JP-0327536.  
XX  
PR 04-NOV-1998; 98JP-0327536.  
XX  
PA (NORQ ) NORINSUISANSHO SHOKUHIN SOGO.  
XX  
DR WPI; 2000-342275/30.  
XX  
PT Quick assay method of specific end protease activity of asparagine  
PT residue of plant origin, involves distributing 7-methoxy  
PT coumarin-4-yl-acetyl and 2,4-dinitrophenyl group to N-terminal side and  
PT C-terminal side -  
XX  
PS Claim 1; Page 8; 11pp; Japanese.  
XX  
CC This sequence represents a peptide recognised and cleaved by asparagine  
CC protease. The invention relates to a quick assay method for asparagine  
CC protease of plant origin. The asparagine protease specifically recognises  
CC asparagine residues and cleaves proteins at the C-terminal end of the  
CC asparagine residue. The assay uses a fluorescence substrate (which has  
CC quenching properties) which distributes a 7-methoxy coumarin-4-yl-acetyl  
CC group to the amino group of the glycine residue at the N-terminal side,  
CC and a 2,4-dinitrophenyl group to the C-terminal of an amino acid  
CC sequence. The fluorescence caused by the fluorescence substrate is not  
CC connected to the asparagine residue and can be measured after cleavage by  
CC the protease. The method is useful for assaying asparagine proteases of  
CC plant origin. The activity of the protease can be determined within a  
CC short time period and the enzyme activity can be measured with high  
CC sensitivity using the fluorescence substrate. The procedure is quick even  
CC when materials which inhibit other protease and fluorescence are included  
CC in the sample.  
XX  
SQ Sequence 11 AA;  
5  
Query Match 100.0%; Score 5; DB 21; Length 11;  
Best Local Similarity 100.0%; Pred. No. 5.5;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GKSRR 5  
| | | | |  
Db 1 gksrr 5  
RESULT 5  
ID AAY81916 standard; peptide; 11 AA.  
XX  
AC AAY81916;  
XX  
DT 23-JUN-2000 (first entry)  
XX  
DE Asparagine protease recognition peptide.  
XX  
KM Asparagine protease recognition peptide; protease assay; enzyme cleavage;  
KM plant protease.  
XX  
OS Glycine max.  
XX  
PN JP3015886-B1.  
XX  
PD 06-MAR-2000.  
XX  
PF 04-NOV-1998; 98JP-0327536.  
XX  
PR 04-NOV-1998; 98JP-0327536.  
XX  
PA (NORQ ) NORINSUISANSHO SHOKUHIN SOGO.  
XX

DR WPI; 2000-342275/30.  
XX  
PT Quick assay method of specific end protease activity of asparagine  
PT residue of plant origin, involves distributing 7-methoxy  
PT coumarin-4-yl-acetyl and 2,4-dinitrophenyl group to N-terminal side and  
PT C-terminal side -  
XX  
PS Claim 1; Page 8; 11pp; Japanese.  
XX  
CC This sequence represents a peptide recognised and cleaved by asparagine  
CC protease. The invention relates to a quick assay method for asparagine  
CC protease of plant origin. The asparagine protease specifically recognises  
CC asparagine residues and cleaves proteins at the C-terminal end of the  
CC asparagine residue. The assay uses a fluorescence substrate (which has  
CC quenching properties) which distributes a 7-methoxy coumarin-4-yl-acetyl  
CC group to the amino group of the glycine residue at the N-terminal side,  
CC and a 2,4-dinitrophenyl group to the C-terminal of an amino acid  
CC sequence. The fluorescence caused by the fluorescence substrate is not  
CC connected to the asparagine residue and can be measured after cleavage by  
CC the protease. The method is useful for assaying asparagine proteases of  
CC plant origin. The activity of the protease can be determined within a  
CC short time period and the enzyme activity can be measured with high  
CC sensitivity using the fluorescence substrate. The procedure is quick even  
CC when materials which inhibit other protease and fluorescence are included  
CC in the sample.  
XX  
SQ Sequence 11 AA;  
Query Match 100.0%; Score 5; DB 21; Length 11;  
Best Local Similarity 100.0%; Pred. No. 5.5;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GKSRR 5  
| | | | |  
Db 1 gksrr 5  
RESULT 6  
ID AAY81917 standard; peptide; 11 AA.  
XX  
AC AAY81917;  
XX  
DT 23-JUN-2000 (first entry)  
XX  
DE Asparagine protease recognition peptide.  
XX  
KM Asparagine protease recognition peptide; protease assay; enzyme cleavage;  
KM plant protease.  
XX  
OS Glycine max.  
XX  
PN JP3015886-B1.  
XX  
PD 06-MAR-2000.  
XX  
PF 04-NOV-1998; 98JP-0327536.  
XX  
PR 04-NOV-1998; 98JP-0327536.  
XX  
PA (NORQ ) NORINSUISANSHO SHOKUHIN SOGO.  
XX  
DR WPI; 2000-342275/30.  
XX  
PT Quick assay method of specific end protease activity of asparagine  
PT residue of plant origin, involves distributing 7-methoxy  
PT coumarin-4-yl-acetyl and 2,4-dinitrophenyl group to N-terminal side and  
PT C-terminal side -  
XX  
PS Claim 1; Page 8; 11pp; Japanese.  
XX  
CC This sequence represents a peptide recognised and cleaved by asparagine



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## OM protein - protein search, using sw model

Run on: August 13, 2001, 11:29:55 ; Search time 58.4 Seconds  
(without alignments)  
1.410 Million cell updates/sec

Title: PCT-US00-40496-40  
Perfect score: 4  
Sequence: 1 AKRL 4

Scoring table: OLIGO  
Gapop 60.0 , Gapext 60.0

Searched: 197339 seqs, 20590346 residues

Word size: 0

Total number of hits satisfying chosen parameters: 104997

Minimum DB seq length: 0  
Maximum DB seq length: 20

Post-processing: Listing first 45 summaries

Database: Issued\_Patents\_AA:\*

- 1: /cgnl\_7/ptodata/1/iaa/5A\_COMB.pep:\*
- 2: /cgnl\_7/ptodata/1/iaa/5B\_COMB.pep:\*
- 3: /cgnl\_7/ptodata/1/iaa/6A\_COMB.pep:\*
- 4: /cgnl\_7/ptodata/1/iaa/6B\_COMB.pep:\*
- 5: /cgnl\_7/ptodata/1/iaa/PCTUS\_COMB.pep:\*
- 6: /cgnl\_7/ptodata/1/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	4	100.0	8	2	US-09-016-366A-50 Sequence 50, Appl
2	4	100.0	9	1	US-08-633-760-7 Sequence 7, Appl
3	4	100.0	12	2	US-08-973-563A-33 Sequence 33, Appl
4	4	100.0	12	2	US-08-973-559-33 Sequence 33, Appl
5	4	100.0	14	1	US-07-968-781A-17 Sequence 17, Appl
6	4	100.0	14	1	US-08-232-453A-6 Sequence 6, Appl
7	4	100.0	16	4	US-08-669-286-8 Sequence 8, Appl
8	4	100.0	16	4	US-09-469-253-8 Sequence 8, Appl
9	4	100.0	17	6	5304631-5 Patent No. 5304631
10	3	75.0	4	1	US-08-460-343B-67 Sequence 67, Appl
11	3	75.0	4	1	US-08-398-028B-67 Sequence 67, Appl
12	3	75.0	4	2	US-08-504-265B-67 Sequence 67, Appl
13	3	75.0	4	2	US-08-504-265B-86 Sequence 86, Appl
14	3	75.0	4	2	US-08-504-265B-87 Sequence 87, Appl
15	3	75.0	4	2	US-08-545-562A-65 Sequence 65, Appl
16	3	75.0	4	3	US-08-888-381-4 Sequence 4, Appl
17	3	75.0	4	5	PCT-US94-07779-16 Sequence 16, Appl
18	3	75.0	4	1	US-08-448-736-12 Sequence 12, Appl
19	3	75.0	5	1	US-08-452-779-12 Sequence 12, Appl
20	3	75.0	5	2	US-08-445-065-13 Sequence 13, Appl
21	3	75.0	5	3	US-08-335-733D-90 Sequence 90, Appl
22	3	75.0	5	3	US-08-959-524-13 Sequence 13, Appl
23	3	75.0	6	2	US-08-928-958-6 Sequence 6, Appl
24	3	75.0	6	2	US-09-072-429-6 Sequence 6, Appl
25	3	75.0	6	3	US-08-718-904-39 Sequence 39, Appl
26	3	75.0	6	4	US-09-177-249-214 Sequence 214, App
27	3	75.0	6	5	PCT-US95-10973A-75 Sequence 75, Appl

28	3	75.0	7	1	US-08-240-514-14 Sequence 14, Appl
29	3	75.0	7	2	US-08-612-302A-14 Sequence 14, Appl
30	3	75.0	7	2	US-08-680-326-92 Sequence 92, Appl
31	3	75.0	7	4	US-09-190-964-1 Sequence 1, Appl
32	3	75.0	7	4	US-09-190-964-3 Sequence 6, Appl
33	3	75.0	7	4	US-09-190-964-6 Sequence 23, Appl
34	3	75.0	7	4	US-09-190-964-23 Sequence 26, Appl
35	3	75.0	7	4	US-09-190-964-26 Sequence 27, Appl
36	3	75.0	7	4	US-09-190-964-27 Sequence 28, Appl
37	3	75.0	7	4	US-09-190-964-28 Sequence 29, Appl
38	3	75.0	7	4	US-09-190-964-29 Sequence 30, Appl
39	3	75.0	7	4	US-09-190-964-30 Sequence 20, Appl
40	3	75.0	7	4	US-09-100-930A-20 Sequence 29, Appl
41	3	75.0	7	5	PCT-US92-10621-50 Sequence 50, Appl
42	3	75.0	7	5	PCT-US93-12679-29 Sequence 29, Appl
43	3	75.0	7	5	PCT-US94-01234-48 Sequence 48, Appl
44	3	75.0	7	5	PCT-US94-02233-50 Sequence 50, Appl
45	3	75.0	8	2	US-08-504-265B-89 Sequence 89, Appl

## ALIGNMENTS

4

RESULT 1  
US-09-016-366A-50  
Sequence 50, Application US/09016366A  
Patent No. 5955431

GENERAL INFORMATION:  
APPLICANT: Stevens, Richard L.  
TITLE OF INVENTION: MAST CELL PROTEASE PEPTIDE  
TITLE OF INVENTION: INHIBITORS  
NUMBER OF SEQUENCES: 65  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.  
STREET: 600 Atlantic Avenue  
CITY: Boston  
STATE: MA  
COUNTRY: U.S.A.  
ZIP: 02210-2211

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/016,366A  
FILING DATE: January 30, 1998  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/037,090  
FILING DATE: 05-FEB-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Plumer, Elizabeth R.  
REGISTRATION NUMBER: 36,637  
REFERENCE/DOCKET NUMBER: B0801/7093  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-720-3500  
TELEFAX: 617-720-2441  
TELEX:  
INFORMATION FOR SEQ ID NO: 50:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 8 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-016-366A-50

Query Match 100.0%; Score 4; DB 2; Length 8;  
Best Local Similarity 100.0%; Pred. No. 1.5e+05;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AKRL 4  
Db 3 AKRL 6

## RESULT 2

US-08-633-760-7  
; Sequence 7, Application US/08633760  
; Patent No. 5804429  
; GENERAL INFORMATION:  
; APPLICANT: NIWA, MINEO  
; APPLICANT: SAITO, YOSHIMASA  
; APPLICANT: FUJIMURA, TAKAO  
; APPLICANT: ISHII, YOSHINORI  
; APPLICANT: NOGUCHI, YUJI  
; TITLE OF INVENTION: A NEW CEPHALOSPORIN C ACYLASE  
; NUMBER OF SEQUENCES: 64  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,  
; ADDRESSEE: P.C.  
; STREET: 1755 JEFFERSON DAVIS HIGHWAY, SUITE 400  
; CITY: ARLINGTON  
; STATE: VIRGINIA  
; COUNTRY: USA  
; ZIP: 22202  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/633,760  
; FILING DATE: 01-MAY-1996  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: OBLON, NORMAN F.  
; REGISTRATION NUMBER: 24,618  
; REFERENCE/DOCKET NUMBER: 18-929-0 PCT  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 413-3000  
; TELEFAX: (703) 413-2220  
; TELEX: 248855 OPAT UR  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 9 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; US-08-633-760-7

Query Match 100.0%; Score 4; DB 1; Length 9;  
Best Local Similarity 100.0%; Pred. No. 1.5e+05;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AKRL 4  
Db 4 AKRL 7

## RESULT 3

US-08-973-563A-33  
; Sequence 33, Application US/08973563A  
; Patent No. 5885965  
; GENERAL INFORMATION:  
; APPLICANT: Oppenheim, Frank G.  
; APPLICANT: Xu, Tao  
; APPLICANT: Spacciapoli, Peter  
; APPLICANT: Roberts, F. D.  
; APPLICANT: Friden, Philip M.  
; TITLE OF INVENTION: Anti-Fungal D-Amino Acid Histatin-Based

; TITLE OF INVENTION: Peptides  
; NUMBER OF SEQUENCES: 37  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; STREET: Two Militia Drive  
; CITY: Lexington  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02173

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/973,563A  
; FILING DATE: 07-JUN-1996  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/485,273  
; FILING DATE: 07-JUN-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Brook, David E.  
; REGISTRATION NUMBER: 22,592  
; REFERENCE/DOCKET NUMBER: PER95-02A2  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 781-861-6240  
; TELEFAX: 781-861-9540  
; INFORMATION FOR SEQ ID NO: 33:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 12 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; FEATURE:  
; NAME/KEY: Region  
; LOCATION: 1..12  
; OTHER INFORMATION: /note="At least one amino acid  
; OTHER INFORMATION: must have a D configuration."  
; US-08-973-563A-33

Query Match 100.0%; Score 4; DB 2; Length 12;  
Best Local Similarity 100.0%; Pred. No. 34;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AKRL 4  
Db 1 AKRL 4

## RESULT 4

US-08-973-559-33  
; Sequence 33, Application US/08973559  
; Patent No. 5912230  
; GENERAL INFORMATION:  
; APPLICANT: OPPENHEIM, FRANK G.  
; APPLICANT: XU, TAO  
; APPLICANT: ROBERTS, F. D.  
; APPLICANT: SPACCIAPOLI, PETER  
; APPLICANT: FRIDEN, PHILIP M.  
; TITLE OF INVENTION: Anti-Fungal and Anti-Bacterial  
; TITLE OF INVENTION: Histatin-Based Peptides  
; NUMBER OF SEQUENCES: 37  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; STREET: Two Militia Drive  
; CITY: Lexington  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02173  
; COMPUTER READABLE FORM: